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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696	7590	09/17/200
QUALCON	AM INCORI	PORATED
5775 MORE	HOUSE DR.	

SAN DIEGO, CA 92121

EXAMINER				
JAIN, RAJ K				
ART UNIT PAPER NUMBER				
2616				
DATE MAILED: 09/17/2008				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,807	11/21/2003	Yongbin Wei	000458C1	3293

TITLE OF INVENTION: METHOD AND APPARATUS FOR CODE ASSIGNMENT IN A SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM

SYSTEM

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR INSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence includir d below or directed oth ions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a							
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
						Cert	ificate	of Mailing or Trans 3) Transmittal is being ficient postage for first ISSUE FEE address 1) 273-2885, on the d	mission depos t class above, ate indi	ited with the United mail in an envelope or being facsimile cated below.
				[(Depositor's name)
										(Signature)
				L						(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR		ATTORNEY DOCKET NO. CONFIRMATION NO			FIRMATION NO.
10/719,807	11/21/2003			Yongbin Wei				000458C1		3293
TITLE OF INVENTION SYSTEM	: METHOD AND AP								CATIO	
APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DU	Æ	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO		\$1440	\$300		\$0		\$1740		12/17/2008
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	П					
JAIN, B			2616	370-320000	_					
"Fee Address" indi- PTO/SB/47; Rev 03-0; Number is required. 3. ASSIGNEE NAME AN	ordence address (or Cha 7/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA cass an assignee is ident in 37 CFR 3.11. Comp	nge of ' ' Indicated. Use	Correspondence ation form of a Customer E PRINTED ON T		ngle or ag attorn be p	3 registered patent ely, firm (having as a gent) and the name eys or agents. If a rinted.	memb s of up to nam	er a 2	ocumer	at has been filed for
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):		Individual 🚨 Co	rporati	on or other private gro	oup enti	ty Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies Advance Order -					v, or credit any					
	SMALL ENTITY state	ıs. See	37 CFR 1.27.	b. Applicant is no						
NOTE: The Issue Fee and interest as shown by the re	rublication Fee (if req ecords of the United Sta	uired) v tes Pate	viii not be accepted ent and Trademark	o irom anyone other that Office.	an th	e applicant; a regis	stered a	utorney or agent; or th	e assig	nce or other party in
Authorized Signature						Date				
Typed or printed name						Registration N	o			
This collection of informa an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC (3-1450.	FR 1.3 U.S.C. USPT rden, sh O NOT	11. The information 122 and 37 CFR O. Time will vary nould be sent to the SEND FEES OR O	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or re estindivid ficer TO	tain a benefit by the mated to take 12 n dual case. Any co , U.S. Patent and THIS ADDRESS	ne publ ninutes mment Fraden . SENI	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Dep D TO: Commissioner	by the g gathe ne you artment for Pate	USPTO to process) ering, preparing, and require to complete of Commerce, P.O. ents, P.O. Box 1450,

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OMB 0651-0033



UNITED STATES PATENT AND TRADEMARK OFFICE

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QUALCOMM	INCORPORATED	JAIN, RAJ K				
5775 MOREHOU			ART UNIT	PAPER NUMBER		
SAN DIEGO, CA 92121 2616						
	DATE MAIL ED: 09/17/2008					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 887 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 887 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/719,807	WEI ET AL.	
Examiner	Art Unit	
PAIK IAIN	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.133 and MPEP 1308.

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

 1. ☑ This communication is responsive to 7/3/08.
- 2. The allowed claim(s) is/are 1,2,4-7,10-13,16,25 and 26 renumbered 1-13.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) I hereto or 2) to Paper No./Mail Date ____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/3/08
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

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Art Unit: 2616

DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Claims 1 and 25 are allowed.

The prior art discloses a large area synchronized-code division multiple access (LAS-CDMA) system using LS codes for spread spectrum modulation.

The prior art however fails to disclose means for assigning a first of a plurality of subsets to a first portion of a wireless CDMA system and means for assigning a second of the plurality of subsets to a second portion of the wireless system and means for identifying mobile stations within the first portion of the wireless system with LS codes from the first of the plurality of subsets; and means for identifying mobile stations within the second portion of the system with LS codes from the second of the plurality of subsets.

Claim 7 is allowed

The prior art discloses a large area synchronized-code division multiple access (LAS-CDMA) system using LS codes for spread spectrum modulation.

The prior art however fails to discloses a cross-correlation between any two LS codes within a first subset that is null within an interference free window, and the cross-correlation between any two LS codes within a second subset is null within the interference free window and wherein the first and second subsets of LS codes are part of a set of LS codes and are defined by the interference free window, and wherein the set of LS codes comprises 128 LS codes, and the interference free window is equal to [-1,+1] and corresponds to 64 available LS codes for each of the first and second subsets.

Claims 13 and 26 are allowed

The prior art discloses a large area synchronized-code division multiple access (LAS-CDMA) system using LS codes for spread spectrum modulation.

The prior art however fails to disclose means for processing a transmission comprising first and second portions, wherein the transmission further comprises a third portion comprising a first LS code, and wherein the second portion has an associated

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first data symbol and the third portion has an associated second data symbol, the second portion comprising the first LS code modulated by the first data symbol, and the third portion comprising the first LS code modulated by the second data symbol.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAJ K. JAIN whose telephone number is (571)272-3145. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Raj K. Jain/
Art Unit 2616
September 15, 2008

Art Unit: 2616

/Chi H Pham/ Supervisory Patent Examiner, Art Unit 2616 8/25/08